

# Dobson Dunavant

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## Skills

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**Languages:** TypeScript, JavaScript, Python, SQL, HTML, CSS, JSON, Bash

**Cloud/DevOps Tools:** AWS, GCP, Docker, Terraform, AWS CDK, Git, GitOps, Jira

**Frameworks/Libraries:** React, Angular, Express (Node.js), Next.js, Zustand, GraphQL, Axios, Jest, React Testing Library

**Databases:** PostgreSQL, MySQL, Redis

## Experience

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**DevOps / Cloud Engineer**, Savvas Learning Company – Remote, USA

May 2024 – Present

- Developed full-stack solutions for Outlier.org, an educational platform, using React, Node.js, PostgreSQL, Jest, Google Cloud Platform (GCP), and Amazon Web Services (AWS) in an Agile environment
- Architected and executed a complete, 0-downtime GCP to AWS cloud migration, including App Engine to ECS Fargate, Cloud Storage to S3, BigQuery to Redshift, and others through multiple managed and custom solutions
- Orchestrated blue-green deployments across multiple ECS services using AWS CodePipeline/CodeDeploy with automated rollback capabilities, enabling 0-downtime releases
- Led 3 major cloud infrastructure epics from planning to completion, including a 0-downtime RDS PostgreSQL 12 to Aurora PostgreSQL 16 migration/version upgrade and a greenfield, multi-environment Outlier AWS CDK IaC project, which now manages all of Outlier's AWS infrastructure, with minimal senior oversight
- Established comprehensive Datadog monitoring and alerting system for critical API endpoints, improving mean time to detection for production issues by 40%
- Implemented multi-region Redis caching layer with automated failover for student data, reducing API latency by 29% during peak traffic periods

**Software Engineering Co-Op**, IFA Group – Ladson, SC

Aug 2023 – May 2024

- Led a team of 4 to develop a portable warehouse inventory scanning system using React, Flask, AWS, MySQL, OpenCV, Tesseract OCR, and YOLOv8 to accurately track inventory movements in real-time
- Authored System Requirements and Design Specification documents by collaborating with warehouse stakeholders, leading to effective planning and execution
- Delivered an end-to-end system within 6 months, including real-time updates via RESTful API communications to SAP API endpoints, leading to previously non-existent inventory awareness

**Software Engineering Intern**, Savvas Learning Company – Remote, USA

May 2023 – Aug 2023

- Developed full-stack solutions for Savvas Realize, a large-scale K-12 ed-tech platform, using Angular micro-frontends, GraphQL, RxJS, Spring Boot, MySQL, Storybook, and Jest
- Optimized GraphQL API calls by minimizing over-fetching data and streamlining query logic
- Won summer hackathon by leading the development of a PowerBI unique student insights dashboard
- Improved API test coverage by 19% through Karate CI/CD integration (measured by JaCoCo metrics)

**Data Engineering Intern**, Vision Software Solutions – Charleston, SC

Sept 2022 – Jan 2023

- Containerized and deployed ETL pipeline for a data-heavy credit scoring algorithm using Docker containers and Terraform, improving system performance and reliability
- Optimized Cosmos DB queries by reducing over-fetching, improving credit scoring algorithm load times by 11%

## Education

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**College of Charleston** – BS in Computer Science, GPA 3.8/4.0

May 2024

*Relevant Coursework: Cloud Computing, Distributed Systems, Operating Systems, Network Security, Database Management & Administration*

## Security Clearances & Certifications

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**AWS SAA-C03** – AWS Solutions Architect - Associate (in-progress)

January 2025